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February 18, 2004

Mr. Nabil S. Fayoumi
U. S. Environmental Protection Agency - Region 5
Superfund Division
77 West Jackson Boulevard (SR-6J)
Chicago, Illinois 60604-3590

Re: Slurry Wall Construction Schedule
Groundwater Migration Control System
Sauget Area 2 – Sites O, Q, R and S
Sauget, Illinois

Dear Nabil:

This letter is being sent to provide the backup to the 36 week schedule estimate that was provided on February 5, 2004.

On that date the Agencies were notified that the slurry wall construction will be suspended until at least March 1, 2004 due to the wintry weather conditions in the St. Louis area. We also informed the Agencies that it is expected to take at least 36 weeks to complete excavation and backfill, cover the spoils and demobilize once the work resumes. This is based on the contractor's (Inquip's) production rates to date and assuming we encounter a similar amount of rock for the remainder of the project.

Excavation Days

During the period September 9, 2003 to December 17, 2004, a total of 1400 feet were excavated to rock. This excavation was accomplished during 57 excavation days, which does not include weather shutdowns or the days when equipment was broken down. Using excavation days as the basis, the production rate can be calculated as:

1400 feet / 57 days = 25 lineal feet / day

Between December 17 and February 13 an additional 160 lineal feet was completed leaving 1740 lineal feet to complete (3300 feet - 1400 feet - 160 feet = 1740 feet remaining)

- Therefore 1740 feet / 25 feet /day = **70 days**/ 5 days = **14 weeks** of excavation.
- Time to remobilize and remove box culvert = **3 weeks**
- Time required to finish backfill following completion of excavation = **4 weeks**
- Time to close site and demobilize = **8 weeks**
- Under perfect conditions the project could be completed in 14 + 3 + 4 + 8 = **29 weeks**.

This time is unrealistic since it does not include breakdowns or weather delays. It also does not account for the greater volume of rock that is expected at the north end of the site.

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Work Days

The total number of **work days** from September 9 to December 17 including weather and breakdown days was **78**.

1400 feet / 78 days = 18 lineal feet / day

1740 feet / 18 feet/day = 97 days / 5 = **19 weeks**

So, project completion = 19 +3 + 4 + 8 = **34 weeks**

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Calendar Days

The total number of **calendar days was 99** from September 9 to December 17.

1400 feet / 99 days = 14 lineal feet / day

1740 feet / 14 feet/day = 124 days / 5 = 25 weeks

So, project completion = 25 +3 + 4 + 8 = **40 weeks**

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Based on these calculations of productive time to date, 34 - 40 weeks is a reasonable estimate of time to complete the project. Note that this schedule could significantly increase if the amount of ledge rock increases.

If you have any questions, please call me.

Sincerely,

Steven D. Smith

cc. Sandra Bron - IEPA
Richard Williams
Peter Barrett – CH2M Hill
Gary Vandiver
Ken Bardo - USEPA
Bruce Yare – Solutia
Cathy Bumb - Solutia